

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12692798
Frame	: 254/6T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 110 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1113 kgm ²
Design	: B		
Output [HP]	20	15	15
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	49.4/24.7	44.4/22.2	41.3/21.9
L. R. Amperes [A]	331/165	329/164	330/175
LRC [A]	6.7x(Code H)	7.4x(Code J)	8.0x(Code K)
No load current [A]	22.2/11.1	21.9/10.9	22.5/11.9
Rated speed [RPM]	1765	1470	1475
Slip [%]	1.94	2.00	1.67
Rated torque [kgfm]	8.22	7.41	7.38
Locked rotor torque [%]	270	270	310
Breakdown torque [%]	300	320	360
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	28s (cold) 16s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	91.0	91.1
	50%	91.7	91.1
	75%	92.4	92.1
	100%	93.0	91.9
Power Factor	25%	0.40	0.34
	50%	0.66	0.58
	75%	0.77	0.71
	100%	0.82	0.79
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3	Foundation loads	
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 363 kgf
Lubrication interval	: 20000 h 20000 h	Max. compression	: 473 kgf
Lubricant amount	: 13 g 8 g		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 54.6A SF 1.00 SFA 54.6A			
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.	
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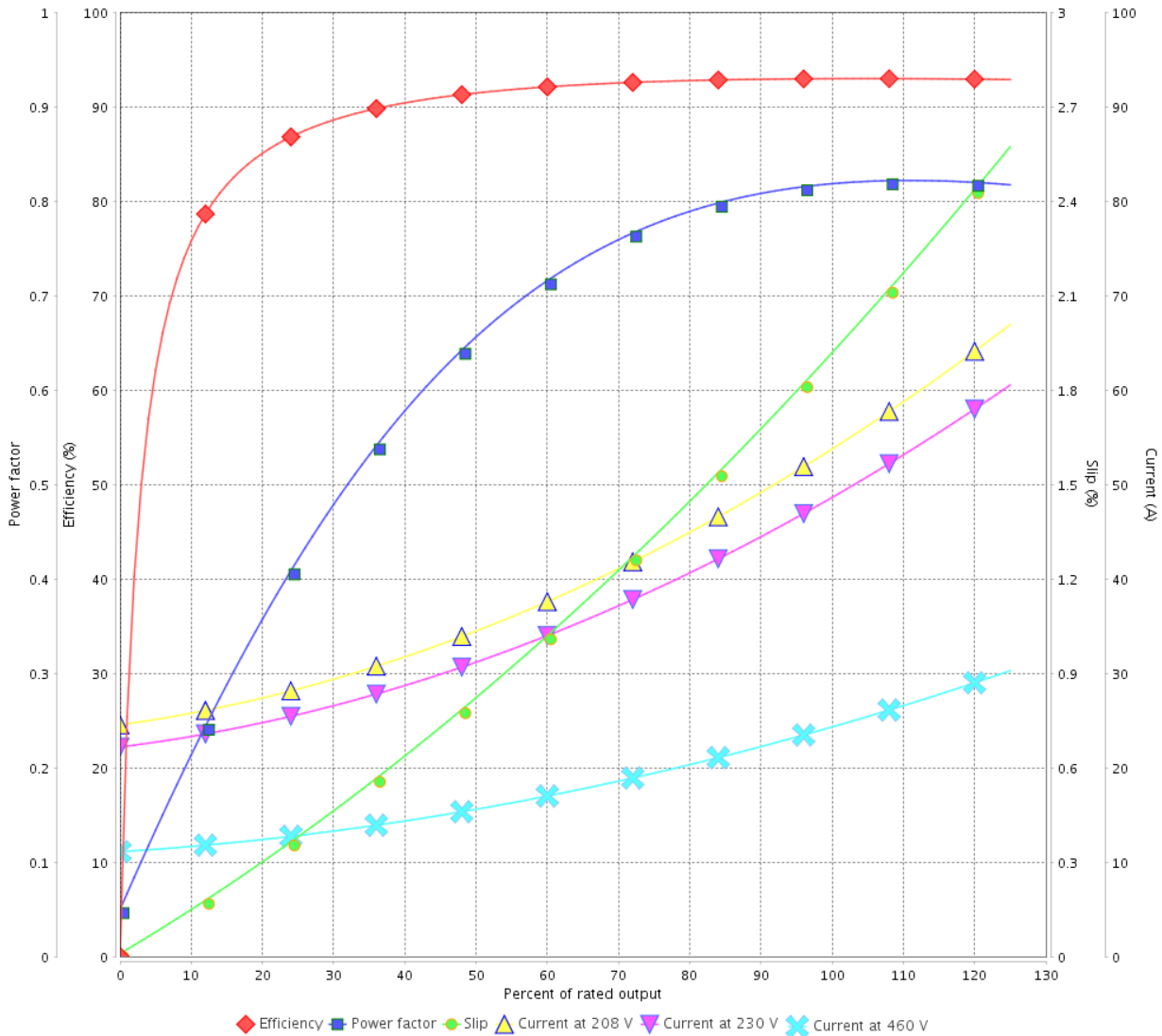
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12692798

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Performance : 230/460 V 60 Hz 4P

Rated current : 49.4/24.7 A
 LRC : 6.7
 Rated torque : 8.22 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.1113 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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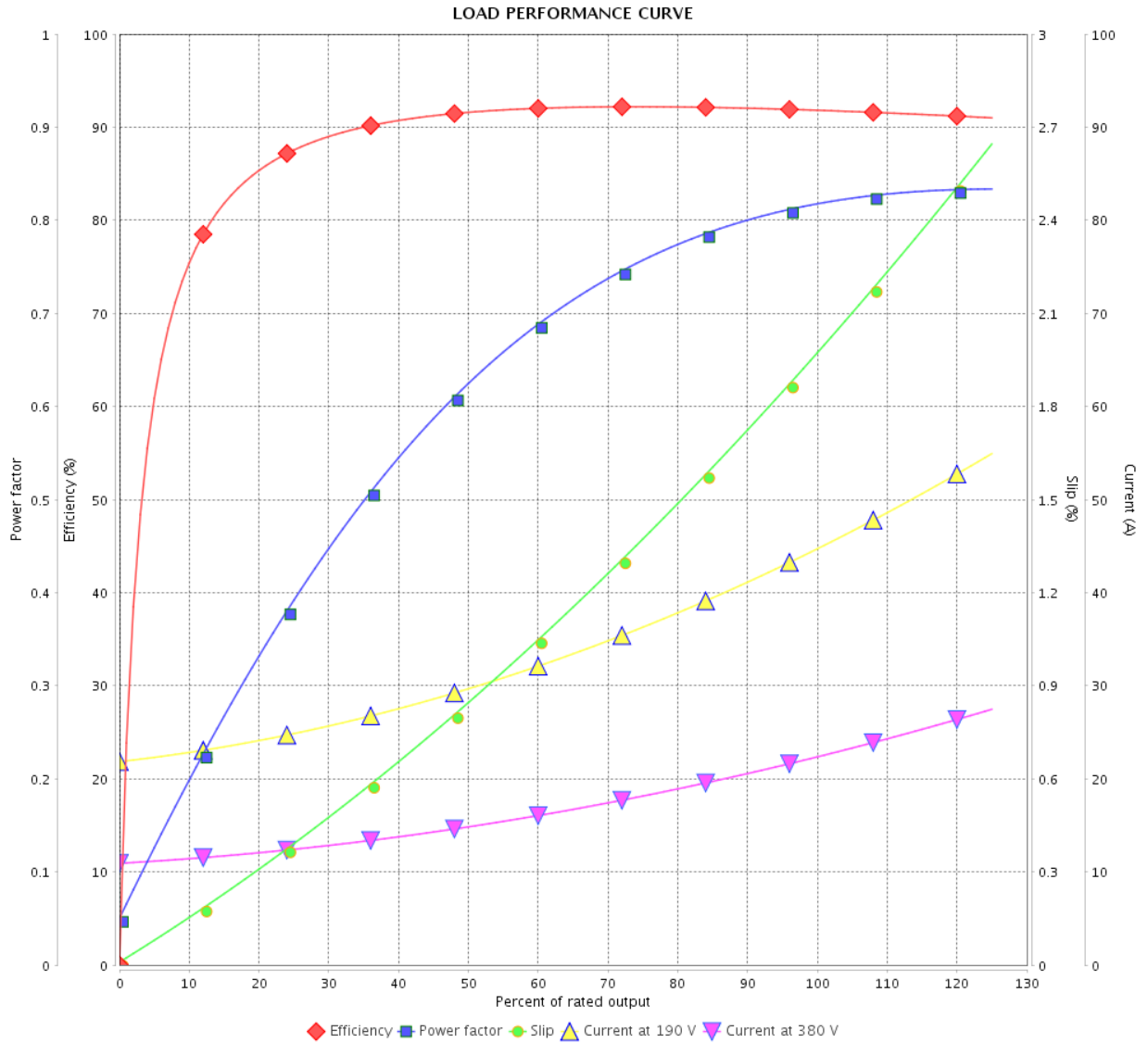
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12692798



Performance : 190/380 V 50 Hz 4P

Rated current : 44.4/22.2 A
 LRC : 7.4
 Rated torque : 7.41 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 320 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.1113 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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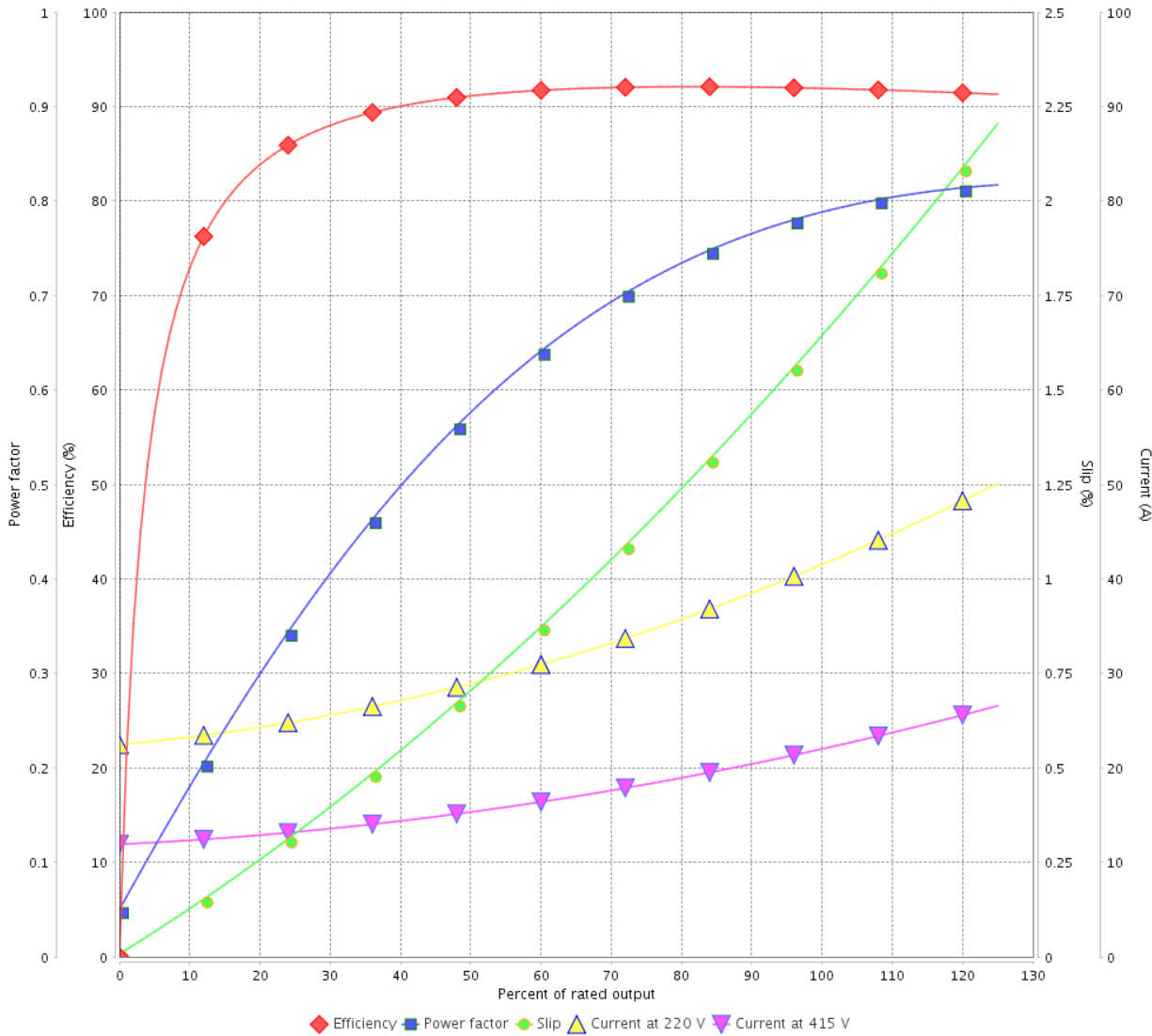
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 220/415 V 50 Hz 4P

Rated current : 41.3/21.9 A
 LRC : 8.0
 Rated torque : 7.38 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 360 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.1113 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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